

# NEW DESCRIPTIONS

## TAXONOMIC STUDIES ON THE MARINE OSTRACODA FROM THE EAST COAST OF INDIA FAMILY: CYTHERURIDAE MULLER, 1894<sup>1</sup>

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(With three plates)

### INTRODUCTION

While investigating the systematics and ecology of benthic ostracods, 40 species belonging to 27 genera and 14 families were identified from the marginal marine/estuarine environments, namely Bimili backwaters (17°54'N, 83°28'E), Balacheruvu tidal stream (17°39'N, 83°15'E) and Vasistha Godavari estuary (16°18'N, 81°42'E). (Annapurna 1978).

Among the members of the family Cytheruridae Müller, 1894, *Paijenborchellina caudatum*, *P. reticulatum* are new to science, *Cytheropteron alatum* Sars, 1865 is recorded for the first time from Indian waters.

Family: CYTHERURIDAE Müller, 1894  
Subfamily: CYTHERURINAE Müller, 1894  
Genus: *Paijenborchellina* Kuznetsova, 1957

#### KEY FOR IDENTIFICATION OF

#### SPECIES OF *Paijenborchellina*:

1. Surface ornamented with longitudinal ridges, closely spaced pits, scattered cross-bars lie between the ridges ..... *Paijenborchellina* sp? 1
2. Ornamented with reticulations, pits lie between the reticulations ..... 6
5. Four hollow tubercles present, pits arranged in rows at posterior margin ..... 5
4. Surface of the shell densely pitted, the inter-

- spaces bluntly spinose to rugose .....  
..... *Paijenborchellina* sp.? 2
5. Amphidont type of hingement, median hinge element divided into short anteromedian and longer posteromedian elements .... *P. caudatum*
  6. Amphidont type of hingement, all elements crenulated ..... *P. reticulatum*

#### *Paijenborchellina caudatum* sp. nov.

(Pl. 1, Fig. A; Pl. 2, Figs. 1-7)

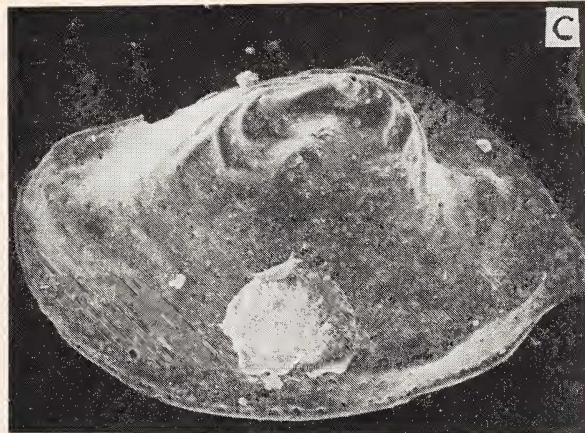
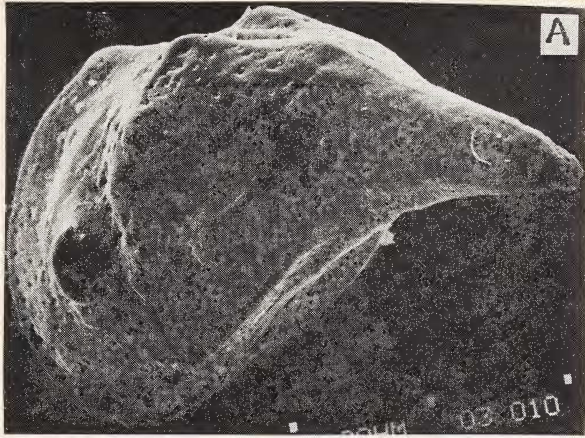
Shell sublanceolate in side view, highest near anterior end. Dorsal and ventral margins sinuous. Posterior margin caudate, pointed and strongly extended medially, concave below. Valves subequal, compressed. Surface of the valve ornamented by narrow, somewhat sinuous, longitudinal ridges that converge towards ends, but do not occupy posterior caudal part of shell, which is slightly compressed and smooth. Longitudinal ridges well developed in dorsal half of shell; numerous closely spaced pits and scattered cross-bars lie between ridges. Amphidont type of hingement. Median hinge element divided into short anteromedian and longer posteromedian elements. Inner lamella moderately wide. Line of concrescence and inner margin coincide throughout and run subparallel to the outer margin. Marginal pore canals few, straight, widely spaced, numerous at anterior end and few at posterior end.

Length 0.49 mm; height 0.25 mm.

Antennule 6-jointed; first four podomeres

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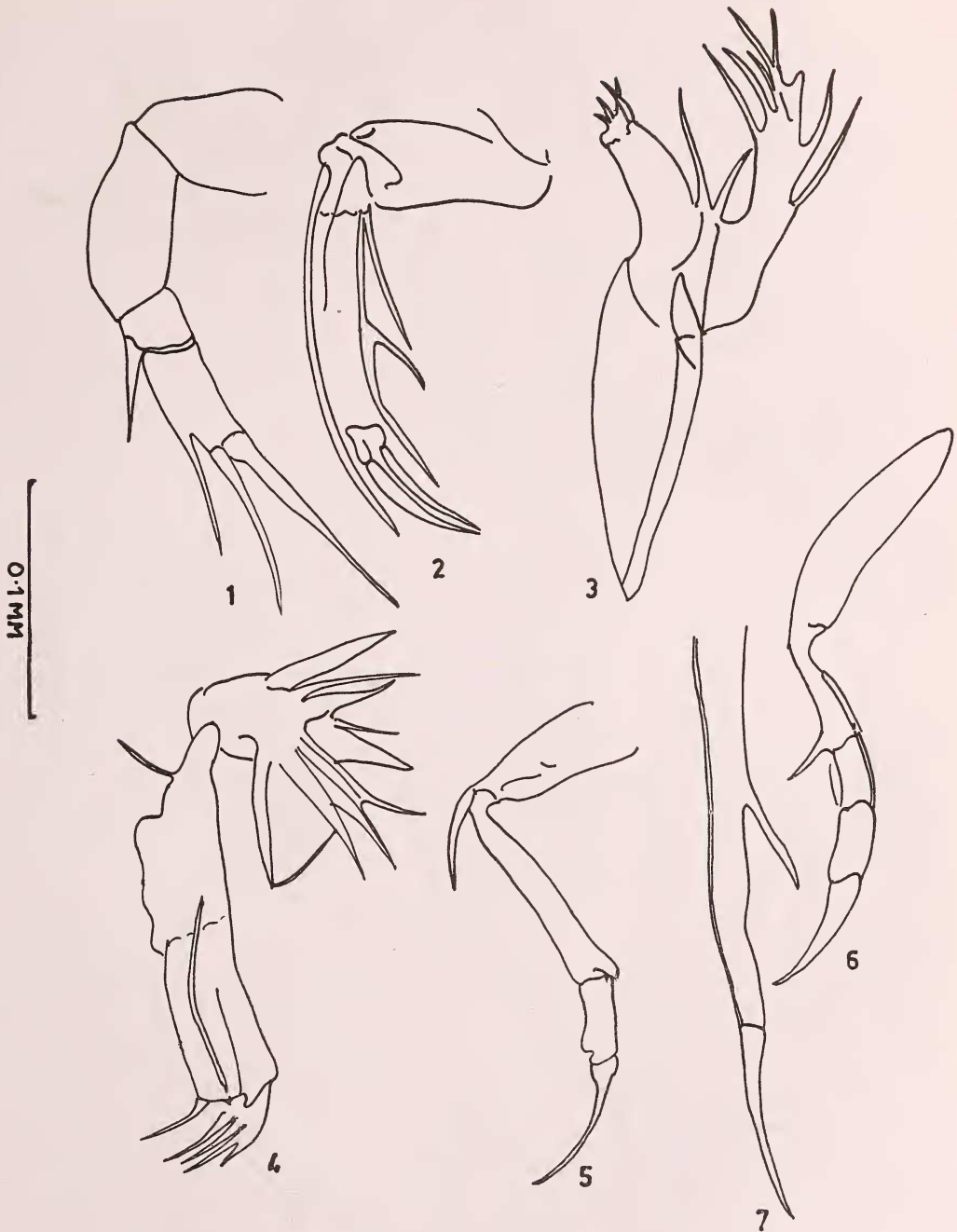
A. *Paijenborchellina caudatum* — Exterior view of left valve.

B. *P. reticulatum* — Carapace seen from above.

C. *Cytheropteron alatum* — Exterior view of carapace.



Annapurna & Rama Sarma: Marine Ostracoda



*Paijenborchellina reticulatum* sp. nov.

1. Antennule; 2. Antenna; 3. Mandible with palp; 4. Maxilla with vibratory plate;  
5. First thoracic leg; 6. Second thoracic leg; 7. Part of third thoracic leg.